# Release notes for ENDF/B Development n-012\_Mg\_026 evaluation



April 26, 2017

- checkr Warnings:
  - 1. A previous error halted parsing of the current section MAT=1231, MF=1, MT=451 (1): Parsing stopped

ERROR(S) FOUND IN MAT=1231, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 148 TO 246

- checkr Errors:
  - 1. A variable is outside the allowed ENDF range MAT=1231, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=1231, MF= 1, MT=451
MOD = 2 OUT OF RANGE 0 - 0 RECORD NUMBER 148

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=2, MT=151 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 248

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=1 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 262

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 287

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 312

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 332

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 22 SECTION 3/ 22 NOT IN DIRECTORY

RECORD NUMBER 340

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 28 SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 348

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 51 SECTION 3/ 51 NOT IN DIRECTORY

RECORD NUMBER 355

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 52 SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 373

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 53 SECTION 3/ 53 NOT IN DIRECTORY

RECORD NUMBER 390

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 54

SECTION 3/54 NOT IN DIRECTORY

RECORD NUMBER 405

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 55 SECTION 3/ 55 NOT IN DIRECTORY

RECORD NUMBER 420

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 56 SECTION 3/ 56 NOT IN DIRECTORY

RECORD NUMBER 434

15. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 57 SECTION 3/ 57 NOT IN DIRECTORY

RECORD NUMBER 448

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 58 SECTION 3/ 58 NOT IN DIRECTORY

RECORD NUMBER 461

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 59 SECTION 3/ 59 NOT IN DIRECTORY

RECORD NUMBER 474

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 60 SECTION 3/ 60 NOT IN DIRECTORY

RECORD NUMBER 486

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 61 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 61 SECTION 3/ 61 NOT IN DIRECTORY

RECORD NUMBER 498

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=62 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 62

SECTION 3/ 62 NOT IN DIRECTORY

RECORD NUMBER 510

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 63 SECTION 3/ 63 NOT IN DIRECTORY

RECORD NUMBER 521

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 532

23. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=3, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 103 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT=103 SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 562

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 3, MT = 107 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER 571

26. Missing a section in directory so your directory is messed up. This error will break ev-

erything else MAT = 1231, MF = 4, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 2 SECTION 4/ 2 NOT IN DIRECTORY

RECORD NUMBER 581

27. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 16 SECTION 4/ 16 NOT IN DIRECTORY

RECORD NUMBER

28. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 22 SECTION 4/ 22 NOT IN DIRECTORY

RECORD NUMBER

772

29. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 28 SECTION 4/ 28 NOT IN DIRECTORY

RECORD NUMBER 783

30. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 51 SECTION 4/51 NOT IN DIRECTORY

RECORD NUMBER 794

31. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 52 SECTION 4/ 52 NOT IN DIRECTORY

RECORD NUMBER 88

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 53 SECTION 4/ 53 NOT IN DIRECTORY

RECORD NUMBER 963

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 54 SECTION 4/ 54 NOT IN DIRECTORY

RECORD NUMBER 984

34. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 55 SECTION 4/ 55 NOT IN DIRECTORY

RECORD NUMBER 1004

35. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 56 SECTION 4/ 56 NOT IN DIRECTORY

RECORD NUMBER 1024

36. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 57 SECTION 4/ 57 NOT IN DIRECTORY

RECORD NUMBER 1044

37. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 58 SECTION 4/ 58 NOT IN DIRECTORY

RECORD NUMBER 1064

38. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=59 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 59 SECTION 4/ 59 NOT IN DIRECTORY

RECORD NUMBER 1082

39. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=4, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 60 SECTION 4/ 60 NOT IN DIRECTORY

RECORD NUMBER 1100

40. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 61 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 61 SECTION 4/ 61 NOT IN DIRECTORY

RECORD NUMBER 1118

41. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 62 SECTION 4/ 62 NOT IN DIRECTORY

RECORD NUMBER 1136

42. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 63 SECTION 4/ 63 NOT IN DIRECTORY

RECORD NUMBER 1154

43. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 4, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 4, MT= 91 SECTION 4/ 91 NOT IN DIRECTORY

RECORD NUMBER 1172

44. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 5, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 5, MT= 16 SECTION 5/ 16 NOT IN DIRECTORY

RECORD NUMBER 1191

45. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 5, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 5, MT= 22 SECTION 5/ 22 NOT IN DIRECTORY

RECORD NUMBER 1343

46. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=5, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 5, MT= 28 SECTION 5/ 28 NOT IN DIRECTORY

RECORD NUMBER 1491

47. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 5, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF= 5, MT= 91 SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 1587

48. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 12, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 16 SECTION 12/ 16 NOT IN DIRECTORY

RECORD NUMBER 1862

49. Missing a gamma spectrum for continuum of gammas MAT=1231, MF=12, MT=16 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 16
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

50. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 12, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 22 SECTION 12/ 22 NOT IN DIRECTORY

RECORD NUMBER 1870

51. Missing a gamma spectrum for continuum of gammas  $MAT=1231,\ MF=12,\ MT=$  22 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 22
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

52. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 28 SECTION 12/ 28 NOT IN DIRECTORY

RECORD NUMBER 1877

53. Missing a gamma spectrum for continuum of gammas MAT=1231, MF=12, MT=28 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 28
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

54. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 51 SECTION 12/ 51 NOT IN DIRECTORY

RECORD NUMBER 1884

55. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 52 SECTION 12/ 52 NOT IN DIRECTORY

56. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 53
SECTION 12/ 53 NOT IN DIRECTORY RECORD NUMBER

57. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 12, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 54 SECTION 12/ 54 NOT IN DIRECTORY

RECORD NUMBER 1896

58. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 12, MT = 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 55 SECTION 12/ 55 NOT IN DIRECTORY

RECORD NUMBER 1900

59. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1231, MF=12, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 56 SECTION 12/ 56 NOT IN DIRECTORY

RECORD NUMBER 1904

60. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 57 SECTION 12/ 57 NOT IN DIRECTORY

RECORD NUMBER 1909

61. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 58 SECTION 12/ 58 NOT IN DIRECTORY

RECORD NUMBER 1913

62. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=59 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 59 SECTION 12/ 59 NOT IN DIRECTORY

RECORD NUMBER 1918

63. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 60 SECTION 12/ 60 NOT IN DIRECTORY

64. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 61 SECTION 12/ 61 NOT IN DIRECTORY

RECORD NUMBER 1926

65. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=62 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 62 SECTION 12/ 62 NOT IN DIRECTORY

RECORD NUMBER 1931

66. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=63 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 63 SECTION 12/ 63 NOT IN DIRECTORY

RECORD NUMBER 1936

67. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 91 SECTION 12/ 91 NOT IN DIRECTORY

RECORD NUMBER 1941

68. Missing a gamma spectrum for continuum of gammas MAT=1231, MF=12, MT=91 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1231, MF=12, MT= 91 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

69. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT=102 SECTION 12/102 NOT IN DIRECTORY

RECORD NUMBER 1950

70. Missing a gamma spectrum for continuum of gammas MAT=1231, MF=12, MT=102 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1231, MF=12, MT=102 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

71. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=12, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT=103 SECTION 12/103 NOT IN DIRECTORY

RECORD NUMBER 1963

72. Missing a gamma spectrum for continuum of gammas MAT=1231, MF=12, MT=103 (1): No gamma spectrum

### ERROR(S) FOUND IN MAT=1231, MF=12, MT=103 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

73. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 12, MT = 107 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=12, MT=107 SECTION 12/107 NOT IN DIRECTORY

RECORD NUMBER 1971

74. Missing a gamma spectrum for continuum of gammas MAT=1231, MF=12, MT=107 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1231, MF=12, MT=107 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

75. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 14, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 16 SECTION 14/ 16 NOT IN DIRECTORY

RECORD NUMBER 1981

76. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1231, MF = 14, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 22 SECTION 14/ 22 NOT IN DIRECTORY

RECORD NUMBER 1983

77. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 28 SECTION 14/ 28 NOT IN DIRECTORY

RECORD NUMBER 1985

78. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 51 SECTION 14/ 51 NOT IN DIRECTORY

RECORD NUMBER 1987

79. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 52 SECTION 14/ 52 NOT IN DIRECTORY

RECORD NUMBER 1989

80. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 53 SECTION 14/ 53 NOT IN DIRECTORY

81. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 54 SECTION 14/ 54 NOT IN DIRECTORY

RECORD NUMBER 1993

82. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 55 SECTION 14/ 55 NOT IN DIRECTORY

RECORD NUMBER 1995

83. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 56 SECTION 14/ 56 NOT IN DIRECTORY

RECORD NUMBER 1997

84. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 57 SECTION 14/ 57 NOT IN DIRECTORY

RECORD NUMBER 1999

85. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 58 SECTION 14/ 58 NOT IN DIRECTORY

RECORD NUMBER 2001

86. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT= 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 59 SECTION 14/ 59 NOT IN DIRECTORY

RECORD NUMBER 2003

87. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 60 SECTION 14/ 60 NOT IN DIRECTORY

RECORD NUMBER 2005

88. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 61 SECTION 14/ 61 NOT IN DIRECTORY

89. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=62 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 62 SECTION 14/ 62 NOT IN DIRECTORY

RECORD NUMBER 2009

90. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=63 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 63 SECTION 14/ 63 NOT IN DIRECTORY

RECORD NUMBER 2011

91. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1231, MF=14, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT= 91 SECTION 14/ 91 NOT IN DIRECTORY

RECORD NUMBER 2013

92. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT=102 SECTION 14/102 NOT IN DIRECTORY

RECORD NUMBER 2015

93. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=14, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT=103 SECTION 14/103 NOT IN DIRECTORY

RECORD NUMBER 2017

94. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1231, MF=14, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=14, MT=107 SECTION 14/107 NOT IN DIRECTORY

RECORD NUMBER 2019

95. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=15, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT= 16 SECTION 15/ 16 NOT IN DIRECTORY

RECORD NUMBER 2022

96. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1231, MF=15, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT= 22 SECTION 15/ 22 NOT IN DIRECTORY

97. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=15, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT= 28 SECTION 15/ 28 NOT IN DIRECTORY

RECORD NUMBER 2169

98. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=15, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT= 91 SECTION 15/ 91 NOT IN DIRECTORY

RECORD NUMBER 2215

99. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=15, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT=102 SECTION 15/102 NOT IN DIRECTORY

RECORD NUMBER 2489

100. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=15, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT=103 SECTION 15/103 NOT IN DIRECTORY

RECORD NUMBER 2935

101. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=15, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=15, MT=107 SECTION 15/107 NOT IN DIRECTORY

RECORD NUMBER 3074

102. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=33, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=33, MT= 2 SECTION 33/ 2 NOT IN DIRECTORY

RECORD NUMBER 3246

103. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=33, MT= 4 SECTION 33/ 4 NOT IN DIRECTORY

RECORD NUMBER 3336

104. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=33, MT= 16 SECTION 33/ 16 NOT IN DIRECTORY

105. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1231, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=1231, MF=33, MT=102 SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 3375

- psyche Warnings:
  - 1. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 26. L = 1 / STRENGTH FUNCTION IS 6.00199E-04 / STRENGTH FUNCTION 6.00199E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 2.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ISOTOPE MASS = 26. L = 1
STRENGTH FUNCTION IS 6.00199E-04
STRENGTH FUNCTION 6.00199E-04
... [1 more lines]
```

- fudge-4.0 Warnings:
  - 1. Missing a channel with a particular angular momenta combination resonances / resolved / MultiLevel\_BreitWigner (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L=0, J=1.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=0.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=1.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=2.5 and S=1.5 for "capture"
```

2. Potential scattering hasn't converted, you need more L's! resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=1 at E=450000.0 eV, xs[1]/xs[0]=1.15859836185% > 0.1%

3. Cross section does not match sum of linked reaction cross sections  $crossSectionSum\ label\ 0:\ total\ (Error\ \#\ 0):\ CS\ Sum.$ 

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.21%

4. Cross section does not match sum of linked reaction cross sections  $crossSectionSum\ label\ 1:\ (z,n)\ (Error\ \#\ 0):\ CS\ Sum.$ 

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 1.15%

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section  $0 \ (n + Mg26)$ : / Form 'eval': / Component  $0 \ (Error \# 0)$ : Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 0 (n + Mg26): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 2 (n[multiplicity:'2'] + Mg25 + gamma): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (Mg27 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (Mg27 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

#### • fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree. reaction label 16: n + H1 + Na25 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -14136325.2996521 eV vs -1.41466e7 eV!

2. Calculated and tabulated Q values disagree.

reaction label 19: H1 + (Na26-s -> Na26 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8560510.229885101 eV vs -7920920. eV!

3. Calculated and tabulated Q values disagree. reaction label 20: He4 + (Ne23\_s -> Ne23 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5404725.841453552 eV vs -5416640. eV!

#### • njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 1231 has no unresolved parameters copy as is to nout

2. Evaluation has no unresolved resonance parameters given purr...probabilistic unresolved calculation (0): No URR

## ---message from purr---mat 1231 has no unresolved parameters copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group-...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

- ---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided
- 4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to good evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

- ---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided
- 5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

  groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)
  - ---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided
- 6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

  groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided